SERVICE MANUAL

SANYO

RADIO CASSETTE RECORDER

M2564F

141 854 00

SPECIFICATIONS

Recording System	DC Bias
Erasing System	DC Erasing
Tape Speed	4.75 cm/sec. ±3%
Fast Forward Time	140 sec. (C-60 cassette)
Rewind Time	140 sec. (C-60 cassette)
Wow & Flutter	0.35% RMS
Frequency Response	100 – 8,000 Hz
Signal to Noise Ratio	Better than 35dB
Hum & Noise	Less than 50dBs
Crosstalk	
Track to Track	Better than 50dB
Terminal Impedance	
MIC	4.7 k-ohm
Ext. Speaker	3.2 ohm

Current Consumption (at VR min.)	
Recording mode	160 mA
Power Consumption	7W
Output Power	2W (max.)
Power Source	
AC	120V/ 200V/240V (50/60 Hz)
DC	7.5V (UM-1, HP 2, D Cell, R 20, Monozellen x 5)
Frequency Rage	
MW	525 – 1605 kHz
FM	88 – 108 MHz

–Specifications subject to change without notice.–

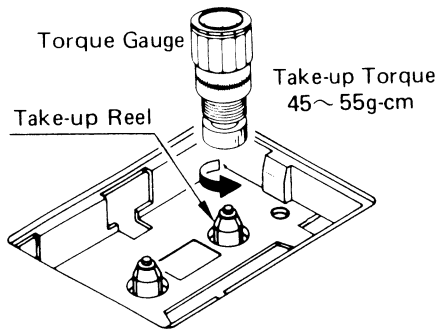
MECHANICAL ADJUSTMENT

GENERAL REMARKS

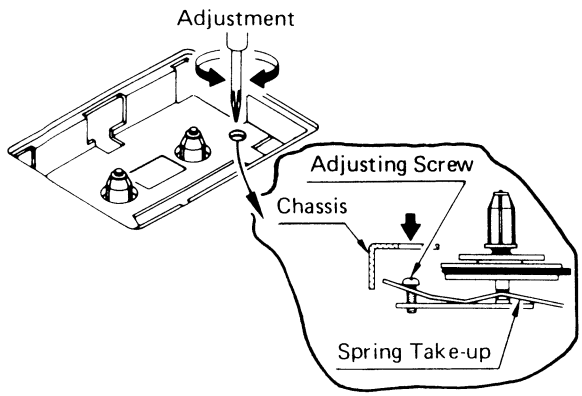
Before adjusting the mechanism of the unit, wipe the tape contact surfaces clean as well as the contact surfaces of the driving parts with a soft cloth soaked in alcohol.
Trouble may occur because of oil and grease stains.

TAKE-UP TORQUE ADJUSTMENT

1. Take off the cassette compartment lid from the unit.
2. Measure the torque of the Take-up Reel with a torque gauge in the playback mode.
   It should be 45 – 55g-cm.



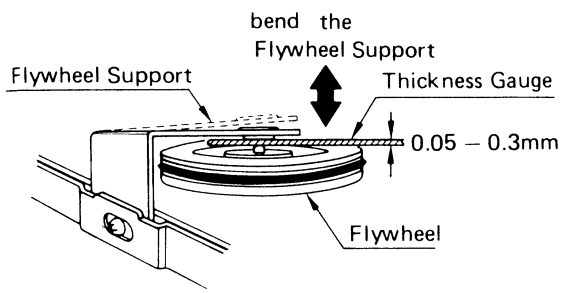
3. If necessary, adjust the torque by turning the adjusting screw as illustrated.



4. After the adjustment, secure the screw with paint or glue.

FLYWHEEL SUPPORT ADJUSTMENT

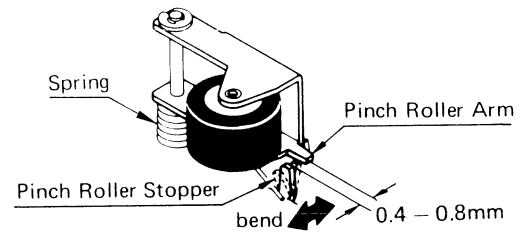
1. Turn the chassis upside down and measure the clearance between the Flywheel Support and the Flywheel.
   It should be 0.05 – 0.3mm.



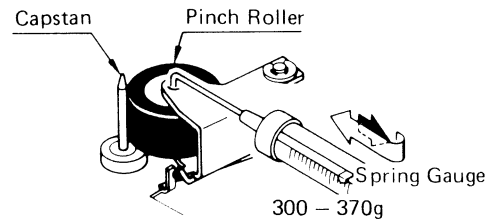
2. If necessary, adjust the clearance by bending the Flywheel Support as illustrated.

PINCH ROLLER ADJUSTMENT

1. The clearance between the Pinch Roller Stopper and the Pinch Roller Arm should be 0.4 – 0.8mm with the unit in the playback mode.
   * If necessary, adjust the clearance by bending the Stopper as illustrated.



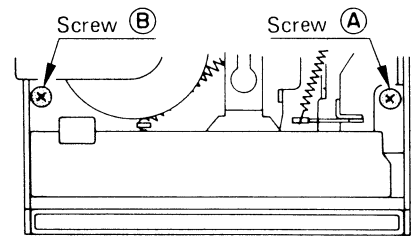
2. Measure the pinch roller pressure with a spring gauge (500g) in the playback mode by the following procedure.
   * Hook the gauge to the Pinch Roller and pull it away from the Capstan as illustrated. Then measure the pressure the moment the Pinch Roller comes in contact with the Capstan again and the Pinch Roller starts rotating.



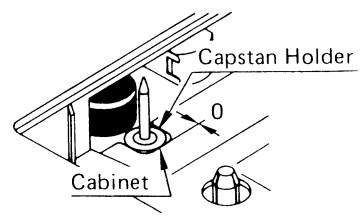
3. If necessary, adjust the pressure by bending the spring or replace it with a new one.

INSTRUCTION FOR CHASSIS MOUNTING

1. Whenever the Chassis is mounted on the Cabinet, tighten the screws (A) and (B) in that order as illustrated.



2. When tightening the screws, be careful not to leave clearnce between the Cabinet and the Capstan Holder as illustrated.

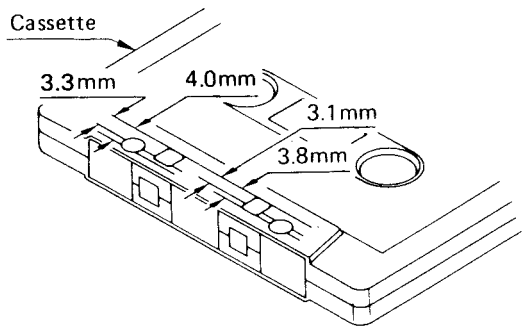


3. If there be clearance after the Chassis is mounted on the Cabinet, it will be impossible to measure the head position correctly.

HEAD POSITION ADJUSTMENT

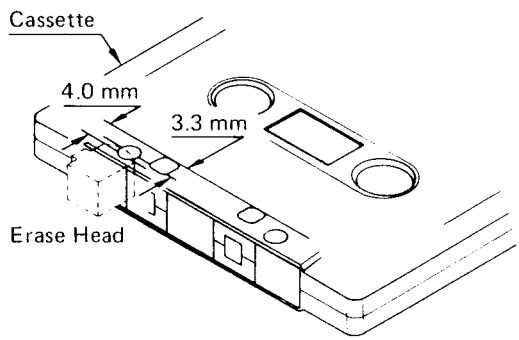
NOTE:

A cassette with the reference lines drawn on it, as shown, can be used as a facilitating gauge for the head position adjustment. (Do not use a worn cassette.)

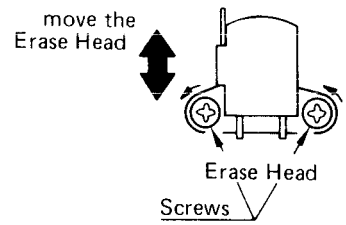


If the Erase Head has been replaced or disassembled, adjust its position with the following procedure.

1. Insert the above described cassette into the unit and set the unit in the playback mode.
2. Measure the distance from the reference holes on the cassette to the Erase Head.
   The distance should be 3.3 – 4.0mm.



3. If necessary, remove the Chassis from the Cabinet.
4. Loosen the screws fastening the Erase Head and adjust the head position by moving it as illustrated.

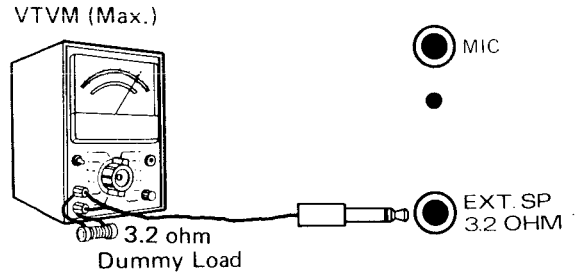


5. Retighten the screws and mount the Chassis on the Cabinet again following Instruction for Chassis Mounting.
6. After re-checking the head position, secure the screws with paint or glue.

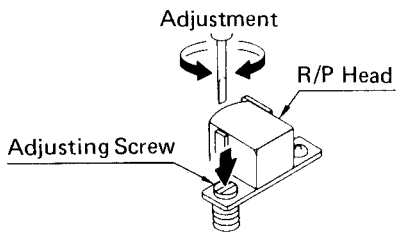
ELECTRICAL ADJUSTMENT

HEAD AZIMUTH ADJUSTMENT

1. Connect a VTVM with 3.2 ohm dummy load to the earphone jack as illustrated and play back a 6.3 kHz test tape (Example: TEAC MTT-113).



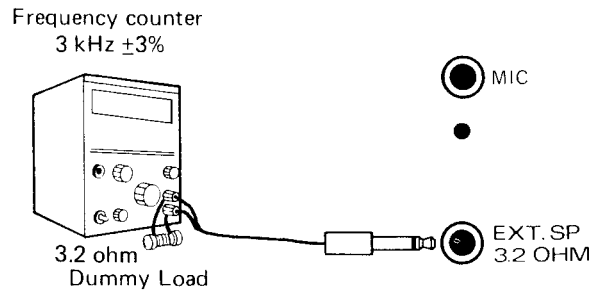
2. Insert an alignment tool into the azimuth adjusting hole of the Cabinet Top and turn the azimuth adjusting screw to obtain the maximum reading on the VTVM.



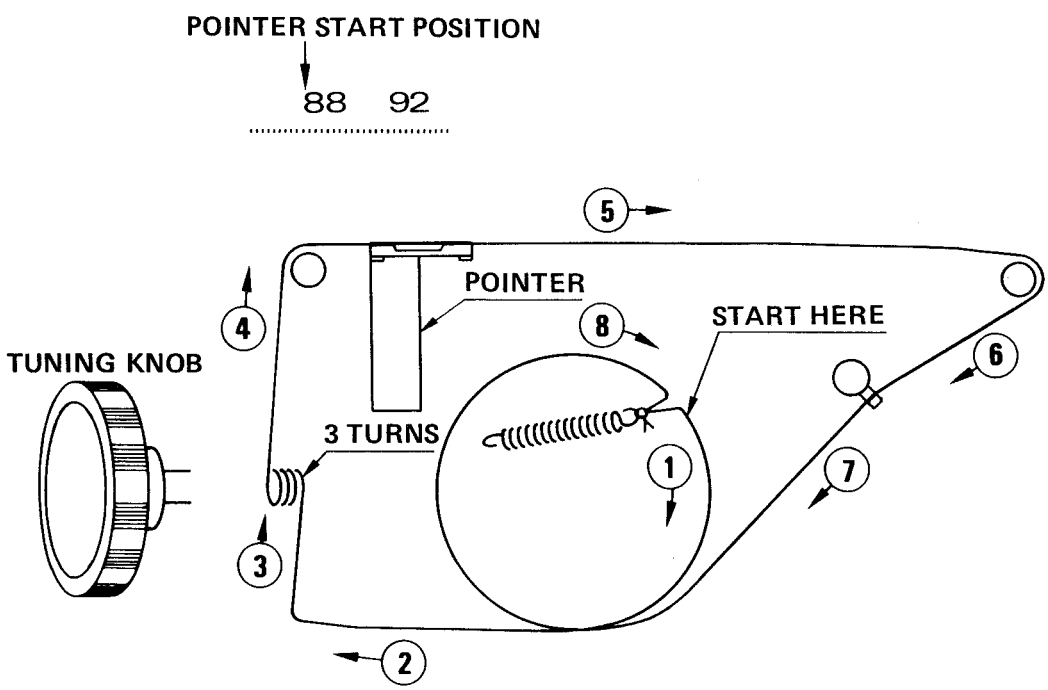
3. After the adjustment, secure the screw with paint or glue.

TAPE SPEED ADJUSTMENT

1. Remove the Badge from the Cabinet Top and connect a frequency counter to the earphone jack as illustrated.
2. Play back a 3 kHz test tape (Example: TEAC MTT-111) and insert an alignment tool into the hole left after the Badge on the Cabinet Top has been removed.
3. Then, adjust the tape speed until the frequency counter reads 3 kHz ±3% by turning the potentiometer inside the Motor.



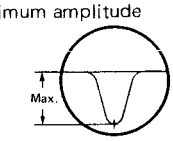
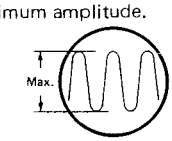
DIAL CORD STRINGING



TUNER ADJUSTMENT

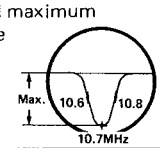
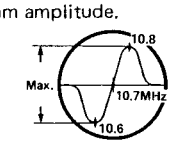
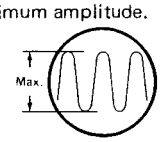
MW ALIGNMENT

Standard test frequency 400 Hz and modulation 30% at AM

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
		INPUT	OUTPUT				
1	Calibration of IF for AM	Connect standard loop antenna to output terminal of gene-scope. Place bar antenna 60 cm away from loop antenna.	Connect input terminal of gene-scope to detector output.	455 kHz	Low End	T6 and T7	Obtain symmetrical curve and maximum amplitude 
2	Adjustment of IF Gain					P1	
3	Calibration of Tuning Range	Connect standard loop antenna to output of signal generator. Place bar antenna 60 cm away from loop antenna.	Connect VTVM with 3.2 ohm dummy load and oscilloscope to Ext. speaker terminal	505 kHz		T5	Obtain sine-wave of 400 Hz and maximum amplitude. 
4				1650 kHz	High End	TC4 (PVC)	
5	Adjustment of Tracking			600 kHz	600 kHz	L5 (bar ant. coil)	
6				1400 kHz	1400 kHz	TC3 (PVC)	
7	Repeat the above adjustments.						

FM ALIGNMENT

Standard test frequency 400 Hz and deviation 22.5 kHz

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
		INPUT	OUTPUT				
1	Calibration of IF	Place output of gene-scope on Trap Coil (L3).	Connect input terminal of gene-scope to detector output.	10.7 MHz	Low End	Turn T4 (blue core) fully counter-clockwise. T1, T2 and T3	Obtain symmetrical curve and maximum amplitude 
2						T4 (blue core)	Obtain S curve and maximum amplitude. 
3	Calibration of Tuning Range	Connect signal generator to antenna terminal through dummy antenna.	Connect VTVM with 3.2 ohm dummy load and oscilloscope to Ext. speaker terminal.	87.2 MHz		L4	Obtain sine-curve and maximum amplitude. 
4				109 MHz	High End	TC2 (PVC)	
5	Adjustment of Tracking			90 MHz	90 MHz	L2	
6				106 MHz	106 MHz	TC1 (PVC)	
7	Repeat the above adjustments.						

* **Use a screwdriver with plastic grip for all adjustments.**

MEMO

PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	PACKAGE		
	141 6 1419 37000	Individual Carton	1
	141 6 1449 49800	Right Case	1
	141 6 1449 49900	Left Case	1
	141 6 2519 08390	Poly Cover	1
	141 6 4559 00100	Serial No. Sheet	3
	141 6 4729 25800	Demonstration Label	1
	141 6 4729 26000	Demonstration Label	1
	ACCESSORIES		
	4 2419 71000	Cassette	1
	4 2439 70490	Power Cord	1
	141 6 2519 05790	Poly Pouch	1
	141 6 4119 70200	Instruction Book	1
	141 6 4729 01900	Caution Label	1
	CABINET		
SP1	4 1519 70630	Speaker (3.2 ohm)	1
SP2	4 1519 70562	Speaker (4 ohm)	1
	4 1539 70550	Microphone	1
S3	4 2319 72010	Leaf Switch (Power Switch)	1
S4	4 2319 71010	Slide Switch (Voltage Selector)	1
	4 2359 70980	Connector	1
	4 2359 71130	AC Socket	1
	4 2449 70160	Antenna	1
T101	4 2519 72221	Power Transformer	1
	4 5279 70762	Motor	1
	141 2 2449 22400	Sheet	1
	141 0 1119 49000	Cabinet Top Assy	1
	141 0 1249 11100	Cassette Lid Assy	1
	141 0 1719 06000	Handle Assy	1
	141 2 1119 43204	Cabinet Bottom	1
	141 2 1149 18300	Speaker Screen	1
	141 2 1319 12800	Dial Window	1
	141 2 1339 17500	Battery Lid	1
	141 2 1429 07200	Badge	1
	141 2 2529 01500	Screen Fix	4
	141 2 2719 07900	Spacer, Handle	2
	141 2 3529 08600	Spacer, Record Lock	1
	141 2 3659 11400	Function Bracket	1
	141 2 3729 00800	Bracket, Fix Speaker	2
	141 2 3829 06700	Battery Terminal Anode	1
	141 2 3829 22400	Spring, Battery	1
	141 2 3829 23300	Spring, Battery	1
	141 2 4359 14400	Cover Socket	1
	141 2 4419 07200	Cushion, Cassette Lid	2
	141 2 4469 22200	Cushion	1
	141 2 4569 00500	Washer, Battery Holder	1
	141 2 4729 03001	Lug	2
	141 2 4729 03400	Lug	1
	141 2 5649 01900	Counter Belt	1
	141 2 6219 01600	Function Lever	1
	141 2 8119 03000	Counter	1
	141 2 8139 03200	Counter Bracket	1
	141 2 8419 07101	Interlock	1
	141 2 8519 48000	Spring, Interlock	1
	141 2 8539 21800	Spring, Cassette	1
	141 2 8539 23200	Spring, Cassette Lid	1
	101 3 1302 60811	Screw, Pan Hd. +M2.6x8	1
	101 3 1302 60818	Screw, Pan Hd. +M2.6x8	1
	101 3 1303 00411	Screw, Pan Hd. +M3.0x4	1
	103 3 1302 61011	Screw, Pan Hd. Tapping-2 +M2.6x10	2
	103 3 1303 00611	Screw, Pan Hd. Tapping-2 +M3.0x6	2
	103 3 1303 00811	Screw, Pan Hd. Tapping-2 +M3.0x8	3
	103 3 1303 01011	Screw, Pan Hd. Tapping-2 +M3.0x10	6
	103 3 1303 01211	Screw, Pan Hd. Tapping-2 +M3.0x12	1
	103 3 1303 01811	Screw, Pan Hd. Tapping-2 +M3.0x18	2
	103 3 1303 02511	Screw, Pan Hd. Tapping-2 +M3x25	3
	103 3 1702 00811	Screw, Bind Hd. Tapping-2 +M2.0x8	2
	103 3 1703 01011	Screw, Bind Hd. Tapping-2 +M3.0x10	2
	110 3 1203 00011	Finished Washer M3.0	2
	110 3 3203 00040	Tooth Outer Washer-B M3.0	1
	141 2 1619 47100	Tone Knob	1
	141 2 1619 47200	Volume Knob	1

Ref. No.	Part No.	Description	Q'ty
	CABINET		
	141 2 1639 20800	Tuning Knob	1
	POWER SUPPLY P.C.B. ASSY		
	4 1919 70912	Power Assy	1
C123	CC2 2 3500 ZG00C	Ceramic 0.022MF 50V +80, –20%	1
C124	CC2 2 3500 ZG00C	Ceramic 0.022MF 50V +80, –20%	1
C125	CD2 2 8100 0000V	Electrolytic 2200MF 10V	1
D102	202 5 2300 017101	Diode, DS17	1
	P.C.B. ASSY TUNER		
	4 1259 70970	Radio Tuner P.C.B. Assy	1
L5	4 2579 70410	Bar Antenna	1
C1	CC1 5 0501 KD00C	Ceramic 15PF 500V ±10%	1
C2	CC2 0 0500 KD00C	Ceramic 20PF 50V ±10%	1
C3	CC1 0 1500 KD00C	Ceramic 100PF 50V ±10%	1
C4	CC2 2 3500 ZG00C	Ceramic 0.022MF 50V +80, –20%	1
C5	CC2 2 3500 ZG00C	Ceramic 0.022MF 50V +80, –20%	1
C6	CC3 3 2500 KE00C	Ceramic 0.0033MF 50V ±10%	1
C7	CC1 8 0500 JD00C	Ceramic 18PF 50V ±5%	1
C8	CC4 0 A500 CD00C	Ceramic 4PF 50V ±0.2PF	1
C9	CC3 3 0500 KD00C	Ceramic 33PF 50V ±10%	1
C10	CC4 0 A500 CCH0C	Ceramic 4PF 50V ±0.2PF	1
C11	CC4 7 1500 KD00C	Ceramic 470PF 50V ±10%	1
C12	CC2 2 3500 ZG00C	Ceramic 0.022MF 50V +80, –20%	1
C13	CC2 2 3500 ZG00C	Ceramic 0.022MF 50V +80, –20%	1
C14	CC1 0 0500 JCH0C	Ceramic 10PF 50V ±5%	1
C15	CC8 0 A500 JCH0C	Ceramic 8PF 50V ±5%	1
C16	CC1 0 2500 KE00C	Ceramic 0.001MF 50V ±10%	1
C17	CM2 2 3500 K00SV	Mylar 0.022MF 50V ±10%	1
C18	CC2 2 3500 ZG00C	Ceramic 0.022MF 50V +80, –20%	1
C19	CC2 2 3500 ZG00C	Ceramic 0.022MF 50V +80, –20%	1
C20	CD4 7 5100 0000V	Electrolytic 4.7MF 10V	1
C21	CC1 0 3500 ZG00C	Ceramic 0.01MF 50V +80, –20%	1
C22	CC2 2 3500 ZG00C	Ceramic 0.022MF 50V +80, –20%	1
C23	CC1 0 3500 ZG00C	Ceramic 0.01MF 50V +80, –20%	1
C24	CM2 2 3500 K00SV	Mylar 0.022MF 50V ±10%	1
C25	CD4 7 5100 0000V	Electrolytic 4.7MF 10V	1
C26	CC1 0 2500 KE00C	Ceramic 0.001MF 50V ±10%	1
C27	CC1 0 2500 KE00C	Ceramic 0.001MF 50V ±10%	1
C28	CM1 0 3500 K00SV	Mylar 0.01MF 50V ±10%	1
C29	CC4 7 3500 ZG00C	Ceramic 0.047MF 50V +80, –20%	1
C30	CC1 0 3500 ZG00C	Ceramic 0.01MF 50V +80, –20%	1
C31	CC2 2 3500 ZG00C	Ceramic 0.022MF 50V +80, –20%	1
C32	CC5 0 A500 KD00C	Ceramic 5PF 50V ±10%	1
C33	CC2 2 3500 ZG00C	Ceramic 0.022MF 50V +80, –20%	1
C34	CC2 2 3500 ZG00C	Ceramic 0.022MF 50V +80, –20%	1
C35	CD3 3 7100 0000V	Electrolytic 330MF 10V	1
C36	CD4 7 5100 0000V	Electrolytic 4.7MF 10V	1
C37	CC4 7 2500 KE00C	Ceramic 0.0047MF 50V ±10%	1
C38	CC1 0 3500 ZG00C	Ceramic 0.01MF 50V +80, –20%	1
C39	CD1 0 5100 0000V	Electrolytic 1MF 10V	1
D1	202 5 9110 18820	Diode, 1S188	1
D2	202 5 1000 553101	Diode, 1S553	1
D3	202 5 9110 18820	Diode, 1S188	1
D4	202 5 9110 18820	Diode, 1S188	1
IC1	206 5 0081 20113	IC, LA1201	1
	141 2 4729 05000	Staple 5	1
	141 2 4729 04400	Staple 12.5	4
L1	4 2579 70014	Antenna Coil	1
L2	4 2599 70144	RF Coil	1
L3	4 2599 70053	Trap Coil	1
L4	4 2589 70443	OSC Coil	1
PVC1	4 2249 70192	Variable Condenser	1
P1	4 2229 72060	Potentiometer (B-30k)	1
Q1	203 5 5500 93050	Transistor, 2SC930	1
Q2	203 5 5500 93040	Transistor, 2SC930	1
Q3	203 5 5500 93040	Transistor, 2SC930	1
R1	RD1 5 4251 KT000	Carbon 150k ohm 1/4W ±10%	1
R2	RD1 0 2251 KT000	Carbon 1k ohm 1/4W ±10%	1
R3	RD4 7 1251 KT000	Carbon 470 ohm 1/4W ±10%	1
R4	RD3 3 2251 KT000	Carbon 3.3k ohm 1/4W ±10%	1
R5	RD8 2 3251 KT000	Carbon 82k ohm 1/4W ±10%	1
R6	RD2 2 1251 KT000	Carbon 220 ohm 1/4W ±10%	1

PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	P.C.B. ASSY TUNER		
R7	RD8 2 4251 KT000	Carbon 820k ohm 1/4W ±10%	1
R8	RD1 0 1251 KT000	Carbon 100 ohm 1/4W ±10%	1
R9	RD1 5 2251 KT000	Carbon 1.5k ohm 1/4W ±10%	1
R10	RD1 0 2251 KT000	Carbon 1k ohm 1/4W ±10%	1
R11	RD1 0 2251 KT000	Carbon 1k ohm 1/4W ±10%	1
R12	RD4 7 2251 KT000	Carbon 4.7k ohm 1/4W ±10%	1
R13	RD4 7 2251 KT000	Carbon 4.7k ohm 1/4W ±10%	1
R14	RD3 3 4251 KT000	Carbon 330k ohm 1/4W ±10%	1
R15	RD5 6 2251 KT000	Carbon 5.6k ohm 1/4W ±10%	1
R16	RD6 8 0251 KT000	Carbon 68 ohm 1/4W ±10%	1
R17	RD1 5 4251 KT000	Carbon 150k ohm 1/4W ±10%	1
R18	RD4 7 2251 KT000	Carbon 4.7k ohm 1/4W ±10%	1
R19	RD5 6 1251 KT000	Carbon 560 ohm 1/4W ±10%	1
R20	RD1 0 1251 KT000	Carbon 100 ohm 1/4W ±10%	1
R21	RD4 7 2251 KT000	Carbon 4.7k ohm 1/4W ±10%	1
R22	RD6 8 0251 KT000	Carbon 68 ohm 1/4W ±10%	1
R23	RD1 0 3251 KT000	Carbon 10k ohm 1/4W ±10%	1
R24	RD6 8 1251 KT000	Carbon 680 ohm 1/4W ±10%	1
R25	RD4 7 3251 KT000	Carbon 47k ohm 1/4W ±10%	1
R26	RD1 0 4251 KT000	Carbon 100k ohm 1/4W ±10%	1
S5	4 2319 71141	Slide Switch (Band Selector)	1
TP1	4 2369 70240	GT Pin	1
TP2	4 2369 70740	RT Pin	1
TP3	111 2 6219 11027	Test Point B	1
TP4	111 2 6219 11027	Test Point B	1
T1	4 2569 70300	IFT	1
T2	4 2569 70690	IFT	1
T3	4 2569 70320	IFT	1
T4	4 2569 70330	IFT	1
T5	4 2589 70510	OSC Transformer	1
T6	4 2569 70830	IFT AM	1
T7	4 2569 70840	IFT AM	1
	P.C.B. ASSY AMP		
	4 1329 73640	Amplifier P.C.B. Assy	1
C101	CM4 7 3500 K00SV	Mylar 0.047MF 50V ±10%	1
C102	CM2 2 3500 K00SV	Mylar 0.022MF 50V ±10%	1
C103	CD4 7 5100 0000V	Electrolytic 4.7MF 10V	1
C104	CM1 2 2500 K00SV	Mylar 0.0012MF 50V ±10%	1
C105	CD1 0 5100 0000V	Electrolytic 1MF 10V	1
C106	CA1 5 4100 K000V	Aluminum 0.15MF 10V ±10%	1
C107	CM8 2 2500 K00SV	Mylar 0.0082MF 50V ±10%	1
C108	CD1 0 5100 0000V	Electrolytic 1MF 10V	1
C109	CC1 0 2500 KE00C	Ceramic 0.001MF 50V ±10%	1
C110	CD3 3 663A 0000V	Electrolytic 33MF 6.3V	1
C111	CC2 2 1500 KE00C	Ceramic 220PF 50V ±10%	1
C112	CD1 0 763A 0000V	Electrolytic 100MF 6.3V	1
C113	CD1 0 7100 0000V	Electrolytic 100MF 10V	1
C114	CD4 7 4100 0000V	Electrolytic 0.47MF 10V	1
C115	CD2 2 763A 0000V	Electrolytic 220MF 6.3V	1
C116	CD4 7 763A 0000V	Electrolytic 470MF 6.3V	1
C117	CD4 7 7100 0000V	Electrolytic 470MF 10V	1
C118	CD4 7 7100 0000V	Electrolytic 470MF 10V	1
C119	CD1 0 763A 0000V	Electrolytic 100MF 6.3V	1
C121	CD2 2 763A 0000V	Electrolytic 220MF 6.3V	1
C122	CD1 0 7100 0000V	Electrolytic 100MF 10V	1
C127	CB3 3 5100 0000V	Non-polar 3.3MF 10V	1
D101	202 5 9530 44810	Diode, DS448	1
IC1	206 5 0824 10111	IC, LA4101	1
	4 2359 71391	Jack 1P (Mike)	1
	4 2359 71391	Jack 1P (Earphone)	1
L101	4 2539 70410	Choke Coil	1
Q101	203 5 5100 69372	Transistor, 2SC693	1
Q102	4 2039 70093	Transistor, 2SD227	1
R101	RD4 7 2251 JH000	Carbon 4.7k ohm 1/4W ±5%	1
R102	RD4 7 2251 JH000	Carbon 4.7k ohm 1/4W ±5%	1
R103	RD2 2 2251 JH000	Carbon 2.2k ohm 1/4W ±5%	1
R104	RD1 2 3251 JH000	Carbon 12k ohm 1/4W ±5%	1
R105	RD1 5 3251 JH000	Carbon 15k ohm 1/4W ±5%	1
R106	RD1 0 5251 JH000	Carbon 1M ohm 1/4W ±5%	1
R107	RD8 2 2251 JH000	Carbon 8.2k ohm 1/4W ±5%	1
R108	RD4 7 0251 JH000	Carbon 47 ohm 1/4W ±5%	1
R109	RD1 5 2251 JH000	Carbon 1.5k ohm 1/4W ±5%	1

Ref. No.	Part No.	Description	Q'ty
	P.C.B. ASSY AMP		
R110	RD1 0 3251 JH000	Carbon 10k ohm 1/4W ±5%	1
R111	RD2 2 3251 JH000	Carbon 22k ohm 1/4W ±5%	1
R112	RD6 8 2251 JH000	Carbon 6.8k ohm 1/4W ±5%	1
R113	RD1 0 0251 JH000	Carbon 10 ohm 1/4W ±5%	1
R114	RD3 9 2251 JH000	Carbon 3.9k ohm 1/4W ±5%	1
R115	RD5 6 0251 JH000	Carbon 56 ohm 1/4W ±5%	1
R116	RD1 5 2251 JH000	Carbon 1.5k ohm 1/4W ±5%	1
R117	RD1 0 0251 JH000	Carbon 10 ohm 1/4W ±5%	1
R118	RD1 8 3251 JH000	Carbon 18k ohm 1/4W ±5%	1
R119	RD6 8 3251 JH000	Carbon 68k ohm 1/4W ±5%	1
R120	RD3 3 2251 JH000	Carbon 3.3k ohm 1/4W ±5%	1
R121	RD2 2 1251 JH000	Carbon 220 ohm 1/4W ±5%	1
R122	RD3 3 2251 JH000	Carbon 3.3k ohm 1/4W ±5%	1
R123	RD1 0 3251 JH000	Carbon 10k ohm 1/4W ±5%	1
S1	4 2319 70320	Slide Switch (Record/Play Switch)	1
S2	4 2319 71970	Slide Switch (Function Switch)	1
	141 2 4729 04400	Staple 12.5	14
	141 2 4729 04700	Staple 10	5
	RADIO CHASSIS		
VR101	4 2229 71241	Volume Control (Volume, A-50k)	1
VR102	4 2229 71241	Volume Control (Tone, A-50k)	1
	141 0 3119 15100	Radio Chassis Assy	1
	141 0 7519 00101	Dial Shaft Assy	1
	141 2 3229 22400	Shield Plate	1
	141 2 3529 08600	Spacer, Record Lock	1
	141 2 3659 11800	Bracket, Band Select	1
	141 2 3849 03100	Antenna Holder	2
	141 2 4179 00700	Nut, Dial Shaft	1
	141 2 4469 21600	Cushion	1
	141 2 4579 00900	Fiber Washer	1
	141 2 5119 03600	Pointer	1
	141 2 5389 01600	Drum	1
	141 2 6219 01500	Lever, Band Select	1
	141 2 8219 23400	Dial Plate	1
	141 2 8519 06700	Spring, CST Case Lever B	1
C126	CM3 9 3500 K00SV	Mylar 0.039MF 50V ±10%	1
	101 3 1302 60411	Screw, Pan Hd. +M2.6x4	4
	101 3 1302 60611	Screw, Pan Hd. +M2.6x6	2
	101 3 1302 60811	Screw, Pan Hd. +M2.6x8	1
	101 3 1702 00518	Screw, Bind Hd. +M2.0x5	4
	103 3 1302 61011	Screw, Pan Hd. Tapping-2 +M2.6x10	2
	103 3 1303 01011	Screw, Pan Hd. Tapping-2 +M3.0x10	4
	110 3 1202 60023	Finished Washer M2.6	1
	MECHANISM		
	4 2429 70370	Erase Head	1
	4 2429 71120	R/P Head	1
	141 0 3119 11700	Assy, Chassis	1
	141 0 3519 07500	Assy, Flywheel Support	1
	141 0 5219 03700	Flywheel Complete	1
	141 0 5319 02501	Assy, Take-up Pulley	1
	141 0 5319 03100	Assy, Take-up Reel	1
	141 0 5319 03200	Supply Reel Complete	1
	141 0 5419 02200	Pinch Roller Assy	1
	141 0 5559 02203	Record Arm Assy	1
	141 0 5559 02800	Rewind Arm Assy	1
	141 0 5559 02900	F. FWD Arm Assy	1
	141 0 6119 01400	Select Lever Assy	6
	141 0 7419 13200	Sensor Plate Assy	1
	141 2 1619 47700	Chip, Select Button	5
	141 2 1619 47702	Chip, Record Button	1
	141 2 3519 24900	Bracket, Stop Lever	1
	141 2 3529 11700	Spacer, Stop	1
	141 2 4179 00700	Nut, Dial Shaft	1
	141 2 4219 02900	Screw	1
	141 2 4219 06300	Screw	2
	141 2 4539 06900	Washer	1
	141 2 4539 08200	Washer	1
	141 2 4539 12100	Washer, Spindle	1
	141 2 4729 03600	Lug	1
	141 2 5519 26200	Counter Pulley	1
	141 2 5649 06300	Drive Belt	1

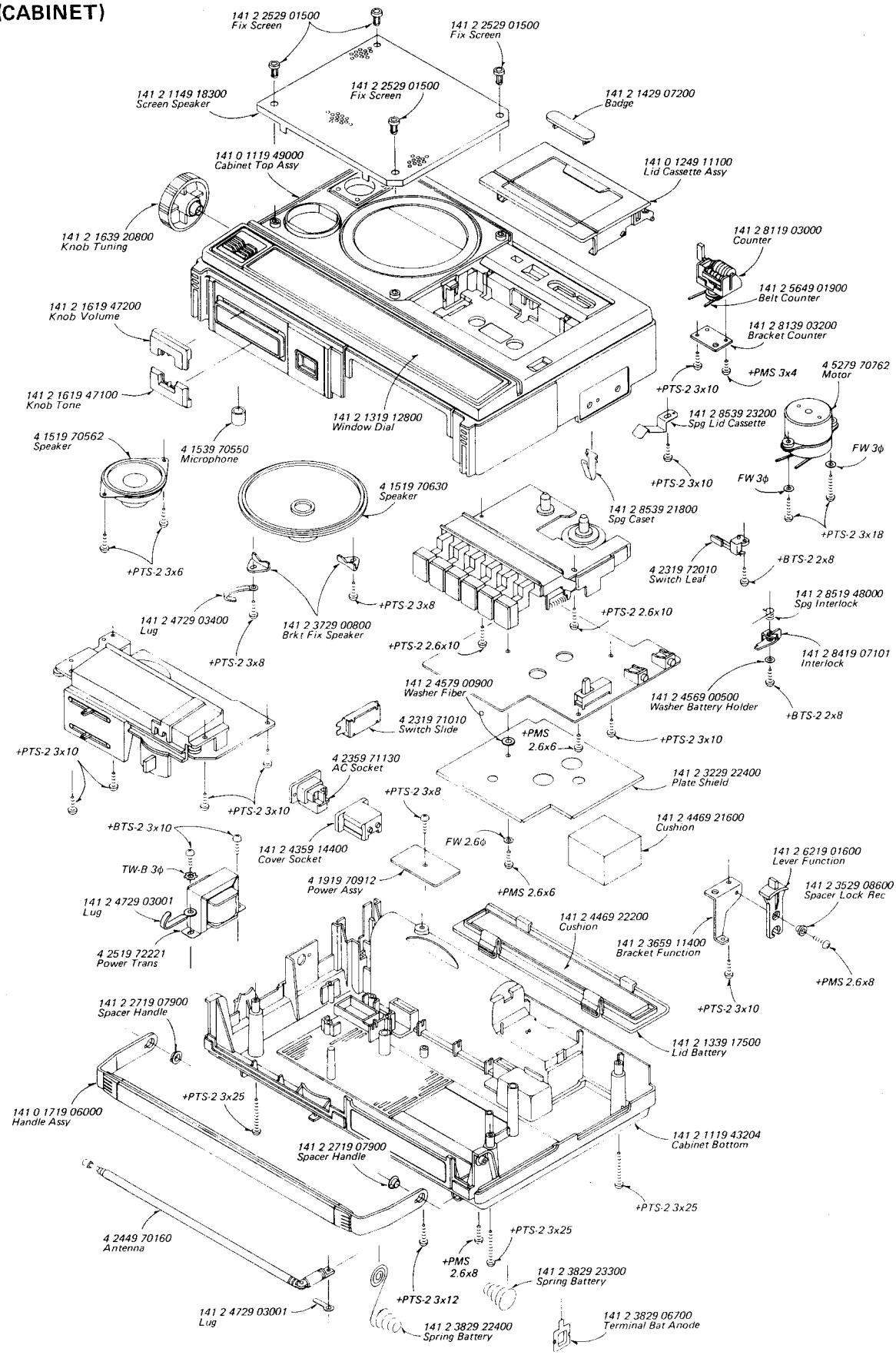
PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	MECHANISM		
	141 2 5649 06400	Capstan Belt	1
	141 2 5729 09700	Capstan Holder	1
	141 2 5729 10900	Reel Holder	1
	141 2 6139 10700	Frame, Select Button	1
	141 2 6139 10800	Frame, Select	1
	141 2 7149 01700	Brake Arm	1
	141 2 7319 20301	Slide Base	1
	141 2 7319 21800	Lock Plate	1
	141 2 7319 24500	Plate Slide Eject	1
	141 2 7419 29200	Stop Lever	1
	141 2 7419 36400	Eject Lever	1
	141 2 8519 25100	Spring, Interlock Lever	1
	141 2 8519 25900	Spring, Rewind Arm	5
	141 2 8519 47400	Spring, Head	1
	141 2 8519 47900	Spring, Pinch Roller	1
	141 2 8519 48200	Spring, Slide Base	2
	141 2 8519 48300	Spring, F.FWD Arm	1
	141 2 8519 48400	Spring, Switch Plate	1
	141 2 8519 53500	Spring, Plunger Lever	1
	141 2 8519 57300	Spring, Stop Lever	1
	141 2 8539 19500	Spring, Take-up	1
	101 3 1302 61211	Screw, Pan Hd. +M2.6x12	2
	101 3 2502 00811	Screw, Cylinder Hd. -M2.0x8	1
	103 3 1302 60611	Screw, Pan Hd. Tapping-2 +M2.6x6	1
	103 3 1302 60811	Screw, Pan Hd. Tapping-2 +M2.6x8	1
	104 3 1302 00511	Screw, Pan Hd. Tapping-3 +M2.0x5	1
	104 3 1302 50811	Screw, Pan Hd. Tapping-3 +M2.5x8	1
	104 3 1702 00611	Screw, Bind Hd. Tapping-3 +M2.0x6	2
	112 3 1302 00040	E Ring M2.0	2
	112 3 1703 00040	G Ring M3.0	1

NOTES: 1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

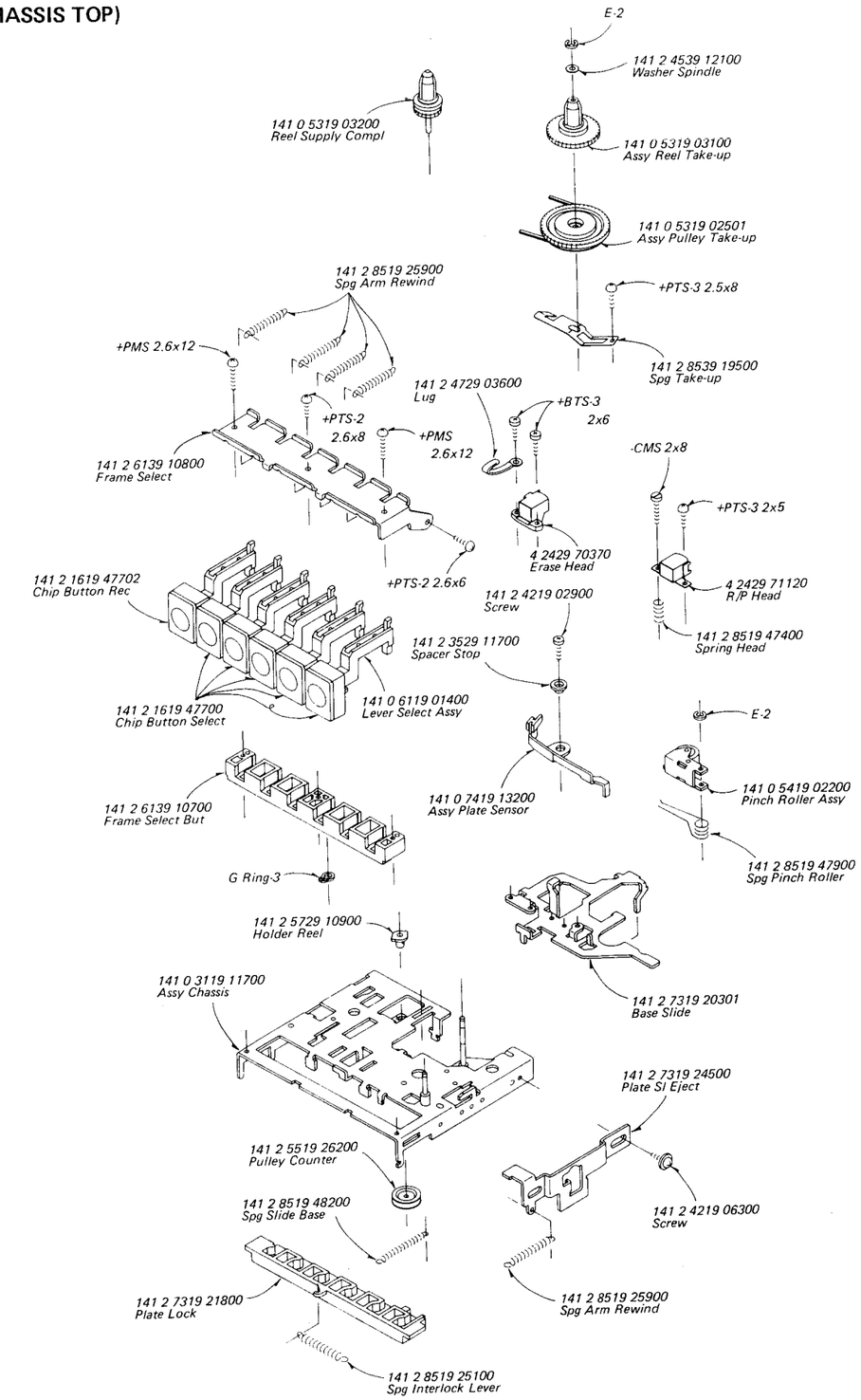
EXPLODED VIEW

(CABINET)



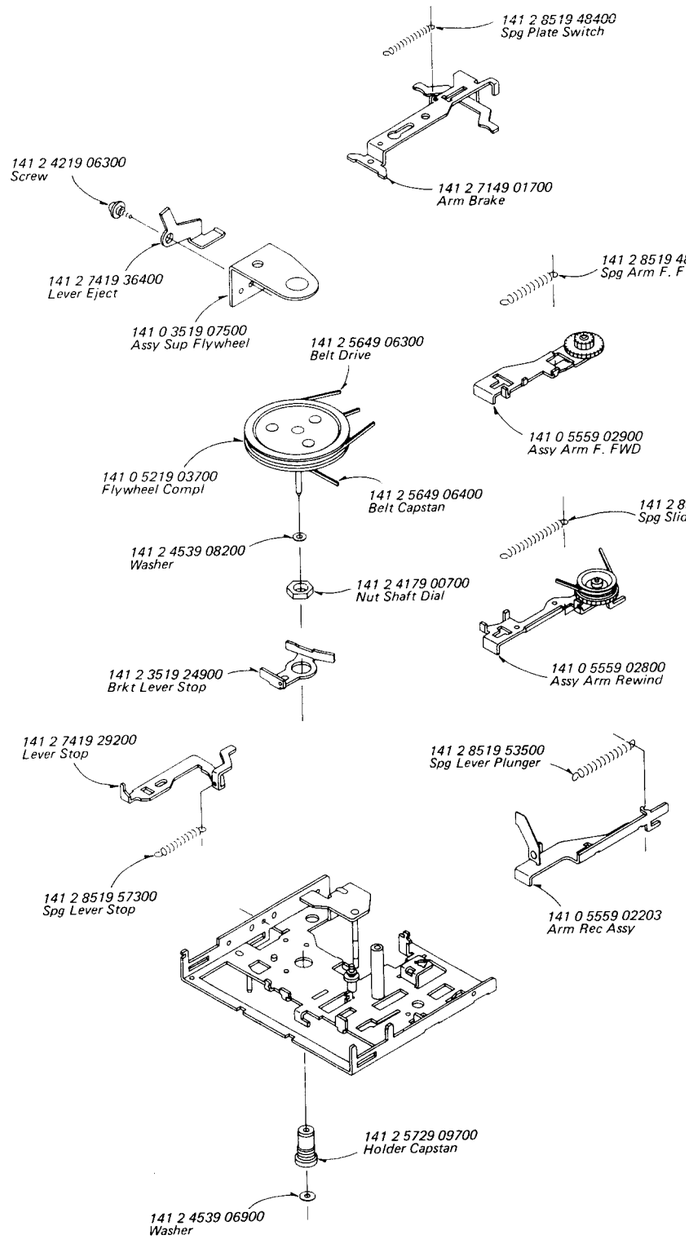
EXPLODED VIEW

(CHASSIS TOP)



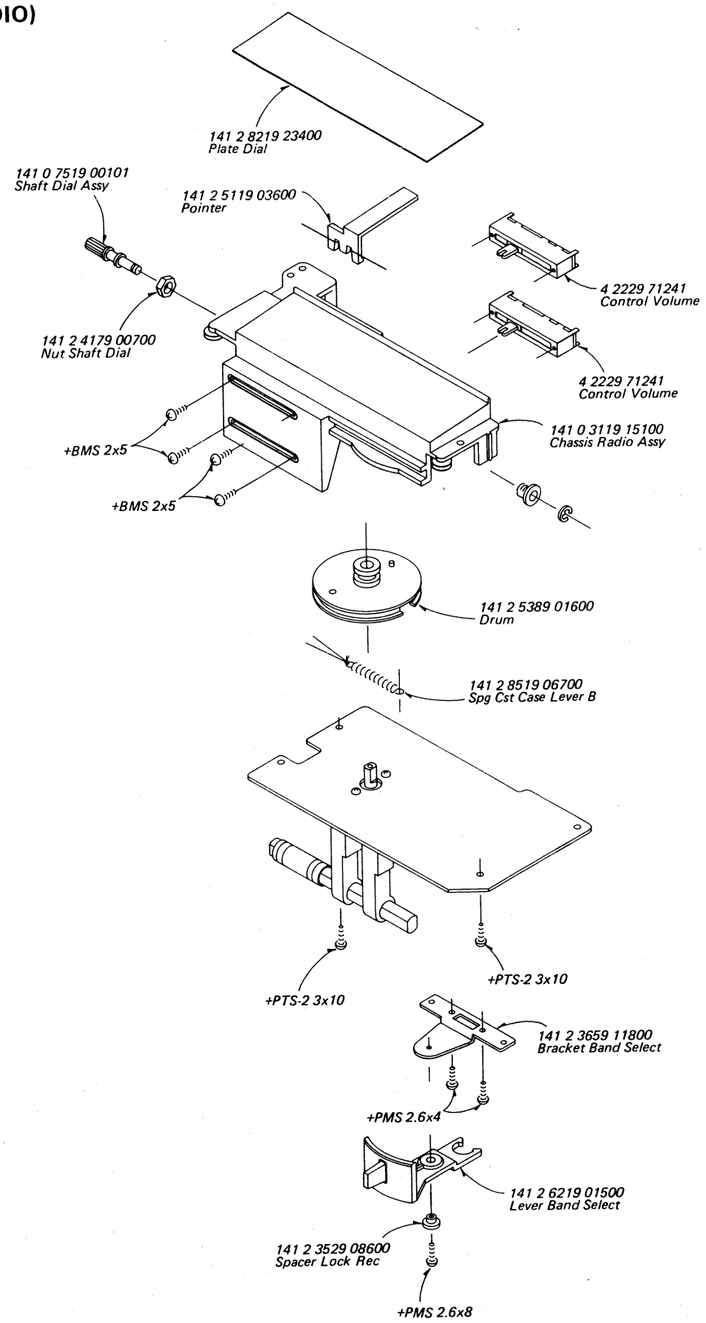
EXPLODED VIEW

(CHASSIS BOTTOM)



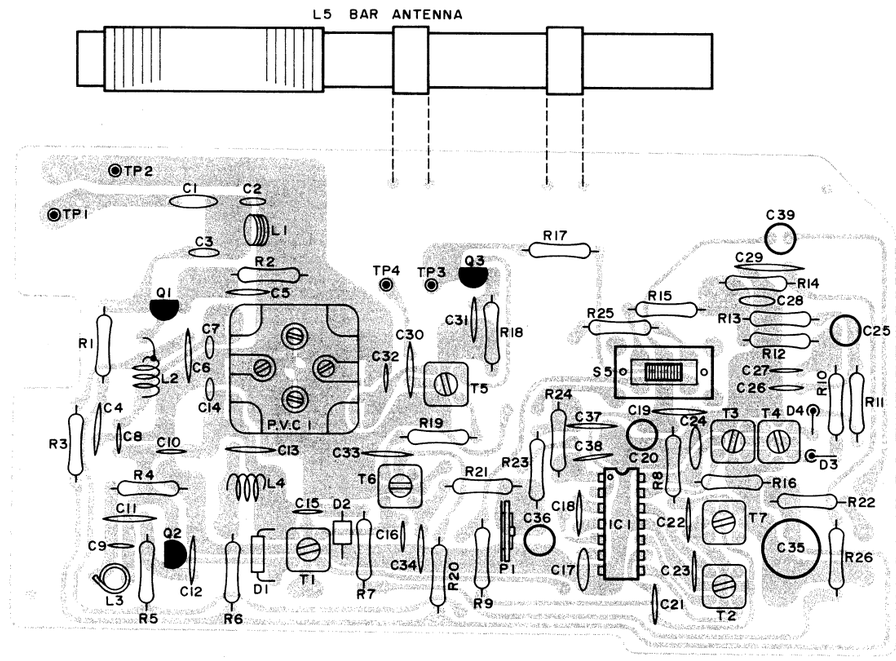
EXPLODED VIEW

(CHASSIS RADIO)

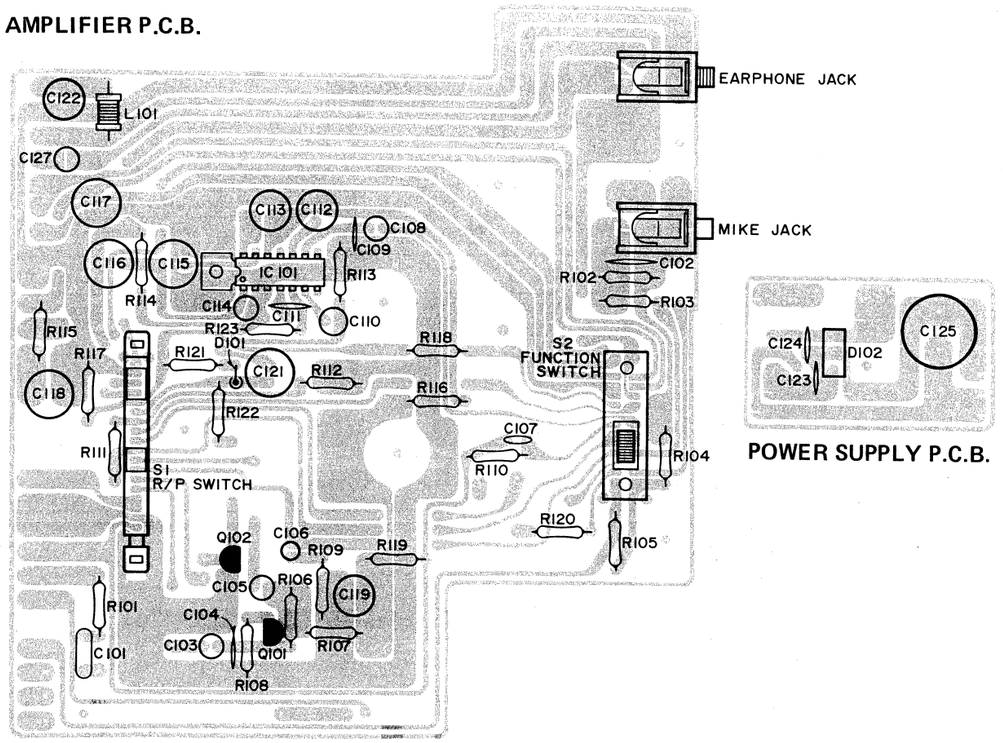


PARTS LOCATION

TUNER P.C.B.

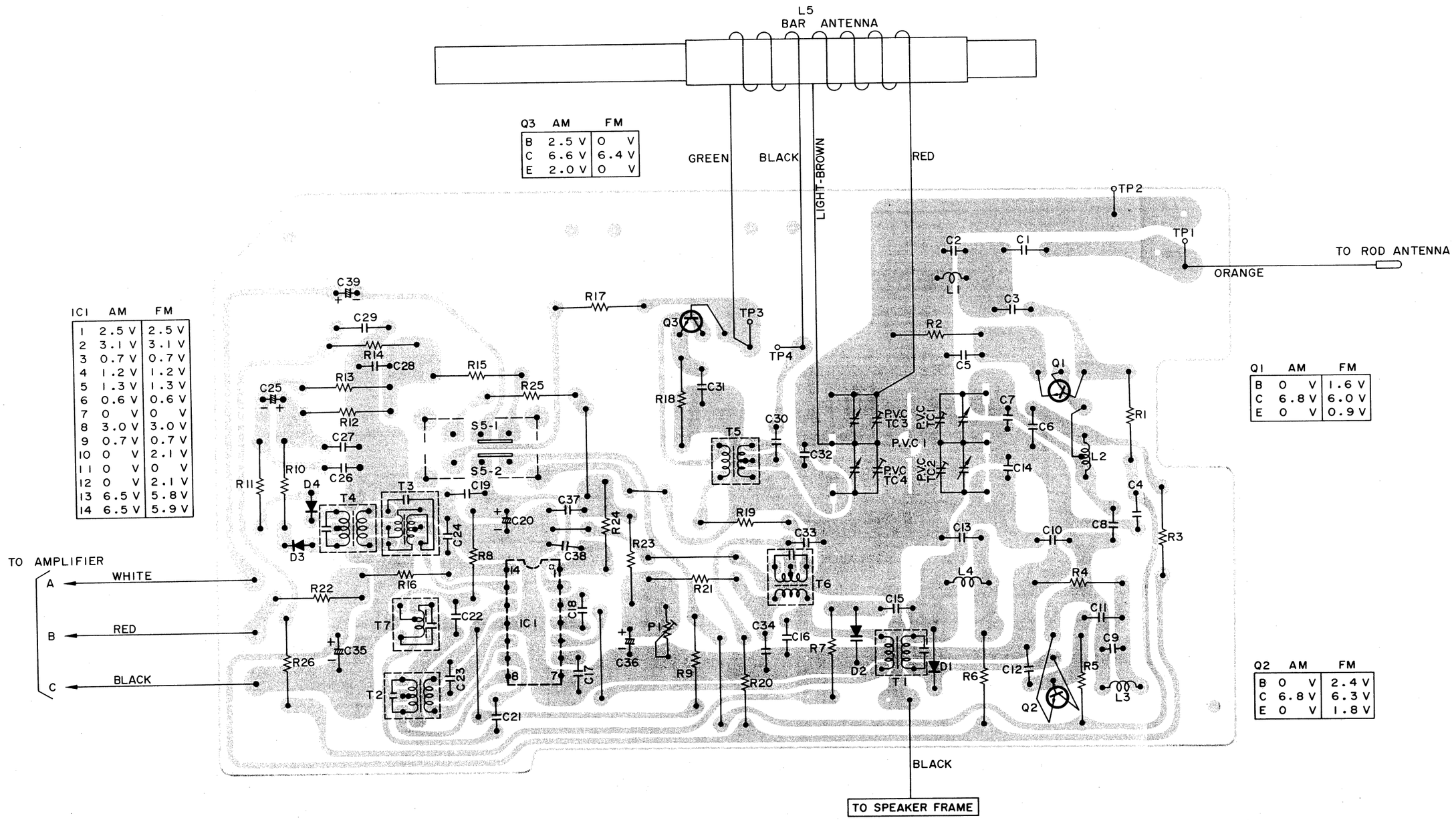


AMPLIFIER P.C.B.



POWER SUPPLY P.C.B.

WIRING DIAGRAM (TUNER)

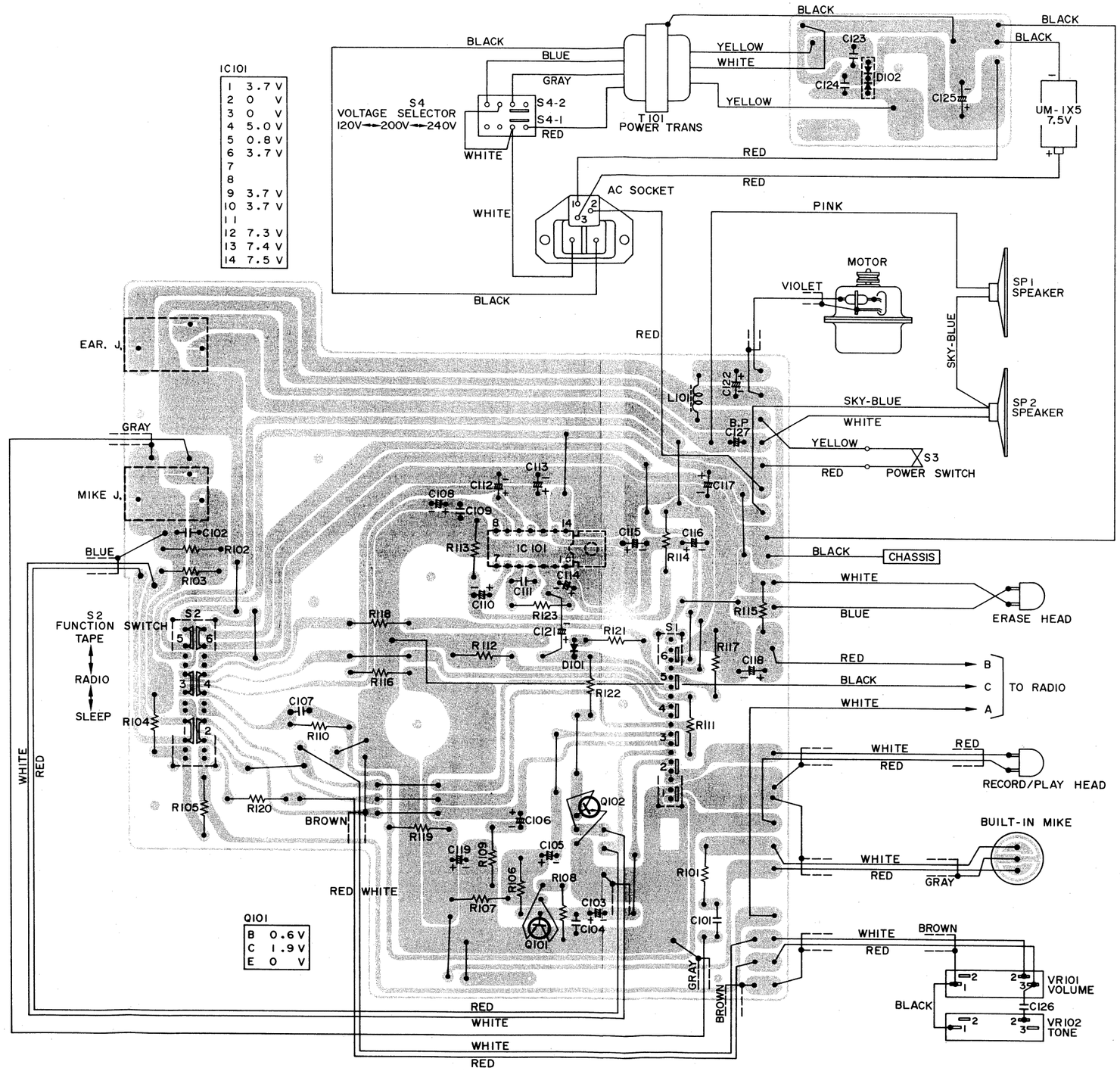


IC1	AM	FM
1	2.5 V	2.5 V
2	3.1 V	3.1 V
3	0.7 V	0.7 V
4	1.2 V	1.2 V
5	1.3 V	1.3 V
6	0.6 V	0.6 V
7	0 V	0 V
8	3.0 V	3.0 V
9	0.7 V	0.7 V
10	0 V	2.1 V
11	0 V	0 V
12	0 V	2.1 V
13	6.5 V	5.8 V
14	6.5 V	5.9 V

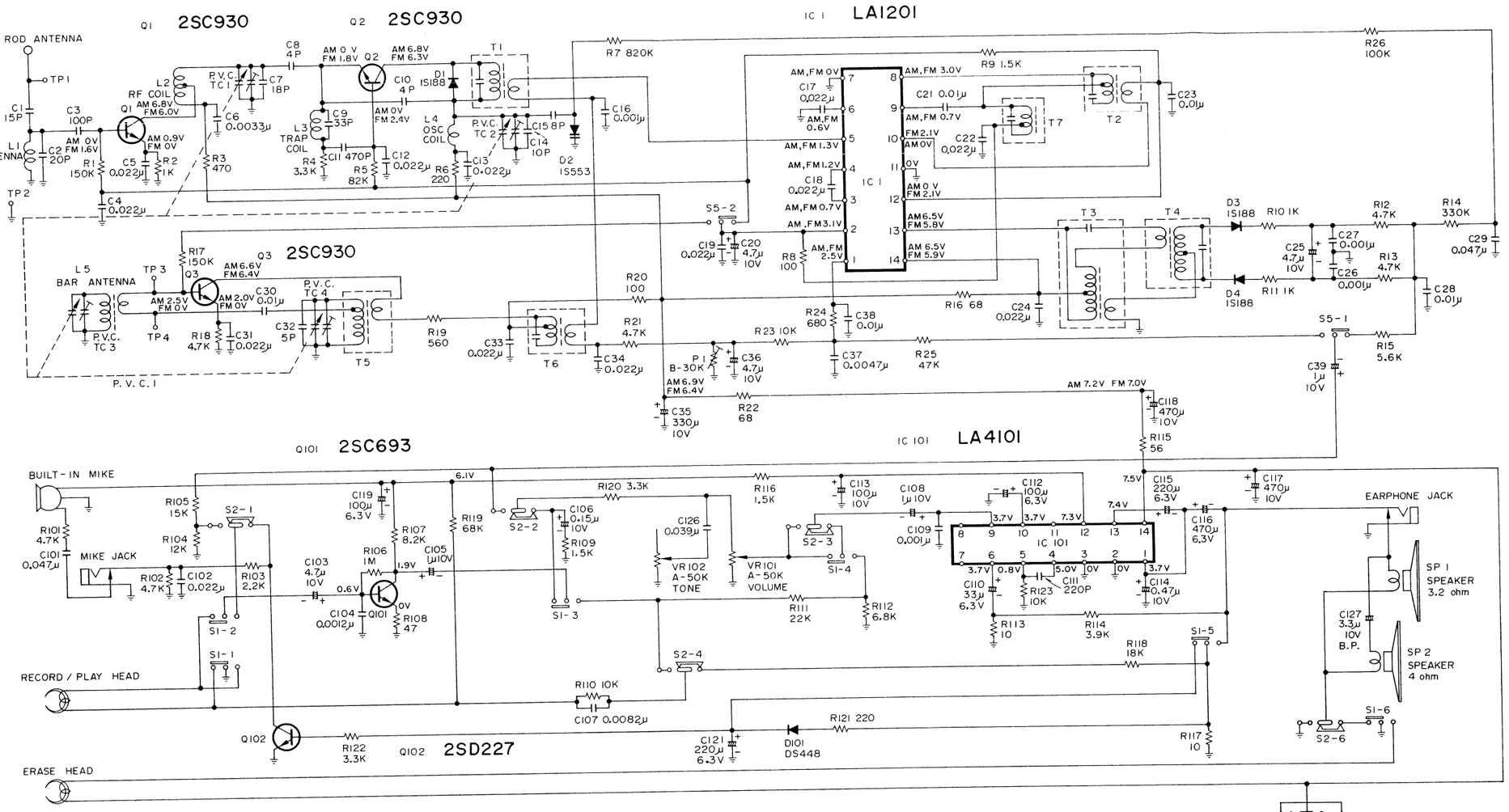
Q3	AM	FM
B	2.5 V	0 V
C	6.6 V	6.4 V
E	2.0 V	0 V

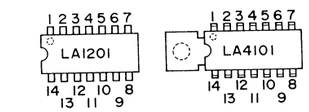
Q1	AM	FM
B	0 V	1.6 V
C	6.8 V	6.0 V
E	0 V	0.9 V

Q2	AM	FM
B	0 V	2.4 V
C	6.8 V	6.3 V
E	0 V	1.8 V

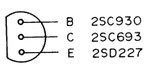

IC101
1 3.7 V
2 0 V
3 0 V
4 5.0 V
5 0.8 V
6 3.7 V
7
8
9 3.7 V
10 3.7 V
11
12 7.3 V
13 7.4 V
14 7.5 V
Q101
B 0.6 V
C 1.9 V
E 0 V
S4
VOLTAGE SELECTOR
120V 200V 240V
S4-2
S4-1
T101
POWER TRANS
AC SOCKET
UM-1X5
7.5V
MOTOR
SP1
SPEAKER
SP2
SPEAKER
SKY-BLUE
S3
POWER SWITCH
EAR. J.
MIKE J.
S2
FUNCTION SWITCH
TAPE
RADIO
SLEEP
IC 101
Q102
Q101
D101
D102
BUILT-IN MIKE
ERASE HEAD
RECORD/PLAY HEAD
TO RADIO
CHASSIS
VR101
VOLUME
VR102
TONE
BLACK
BLUE
GRAY
YELLOW
WHITE
RED
BROWN
VIOLET
PINK

SCHEMATIC DIAGRAM





IC BOTTOM VIEW



TRANSISTOR BOTTOM VIEW